

# uB DAQ Overview

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# MicroBooNE DAQ

8,256 wires

11 flanges => 9 crates, computers

36 PMTs

1 flange => 1 crate, computer



# crates and servers

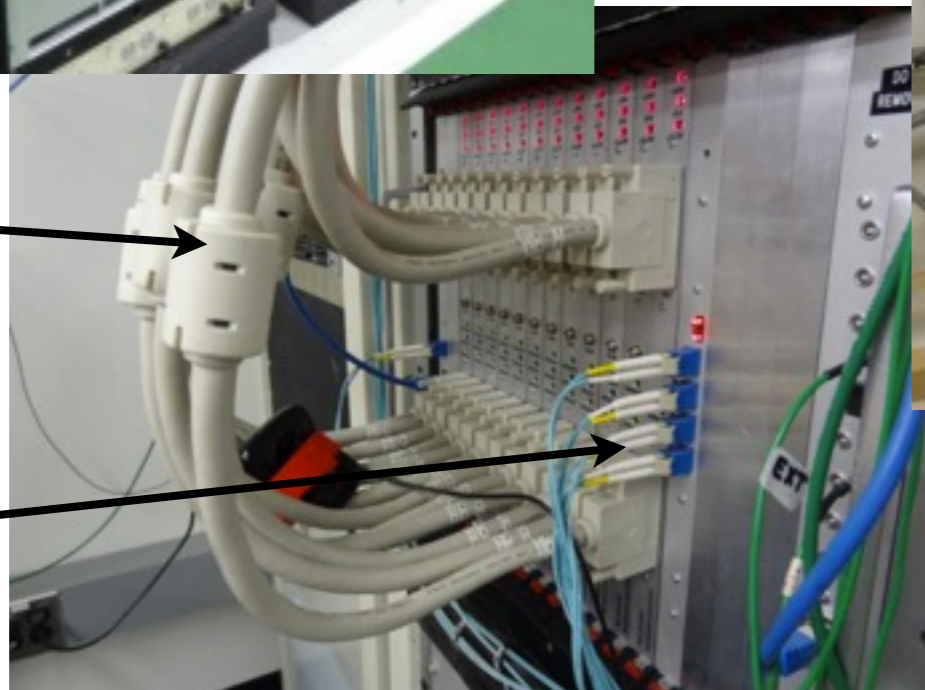


TPC crates under construction



DAQ servers

TPC crate up close



“warm” cables to flange

fibers to servers

PMT server in red

EventBuilder in green

TPC servers 1-9 in light blue

# Online/Offline DAQ systems

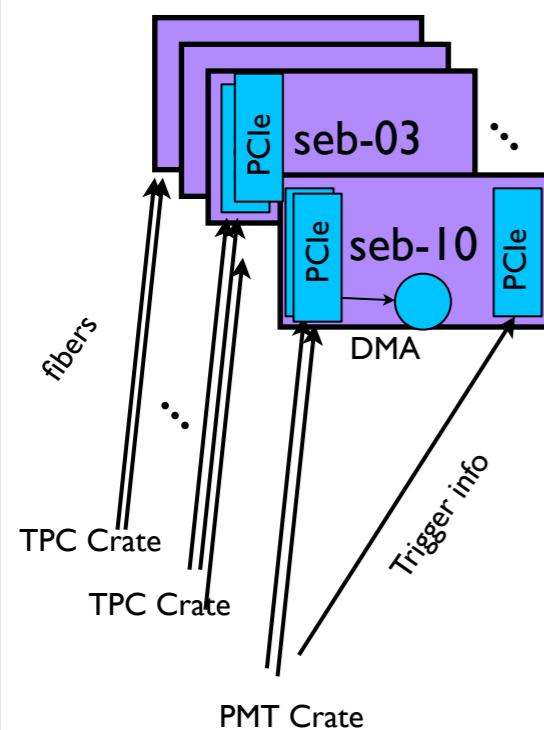
ubdaq-prod network

There are duplex fibers that ship triggered (neutrino) data into a dedicated Nevis PCIe card. There is another duplex pair that ships untriggered “SuperNova” data continuously into another PCIe card.

Heavily borrowed from NOvA!

Run Control  
(msg passing)

DAQ runconfig/  
calibrationconsts  
postgres dB



Assembler

sub-run  
files

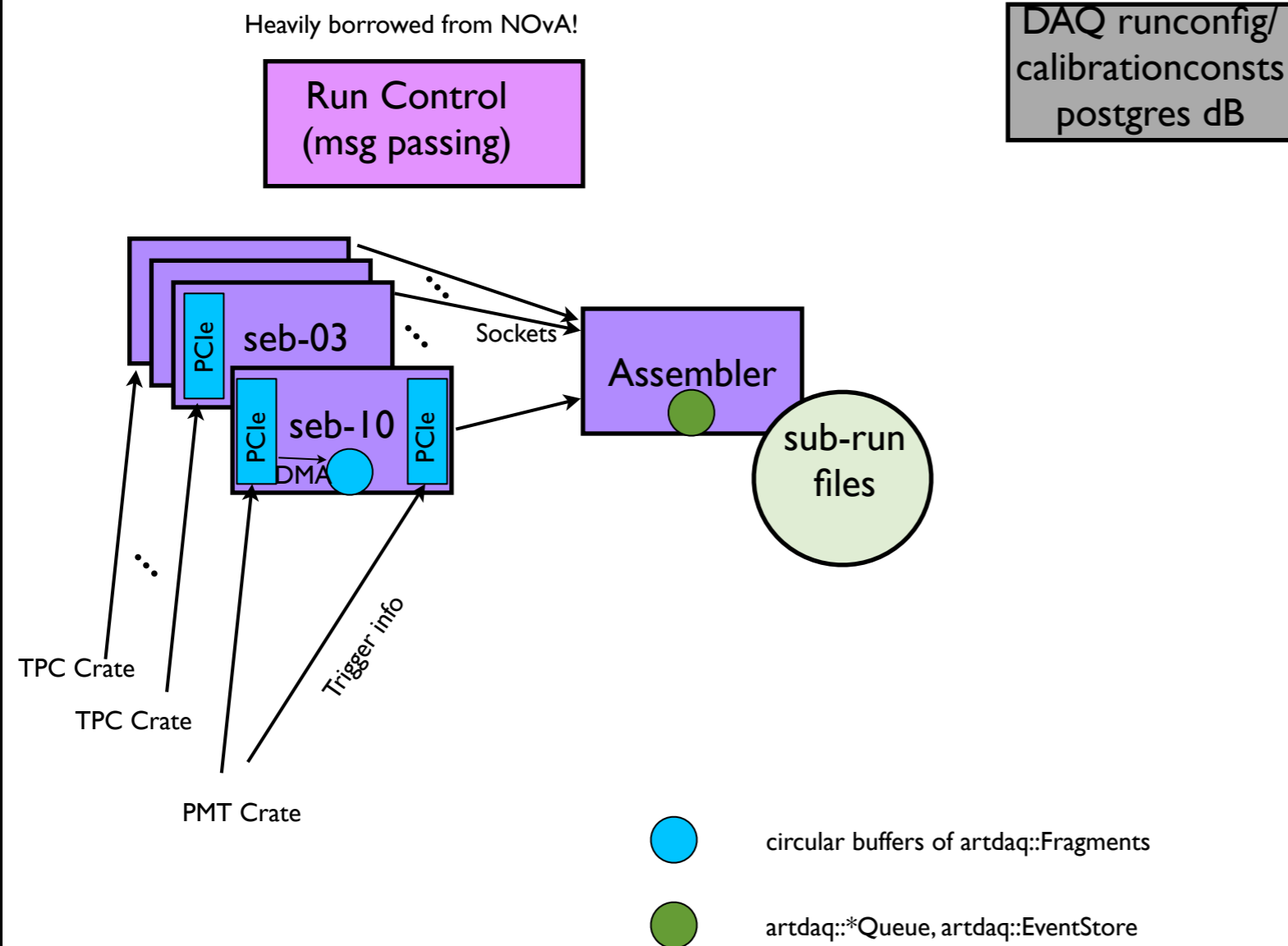
FEF sys-admins 15 servers at LArTF for uBooNE.



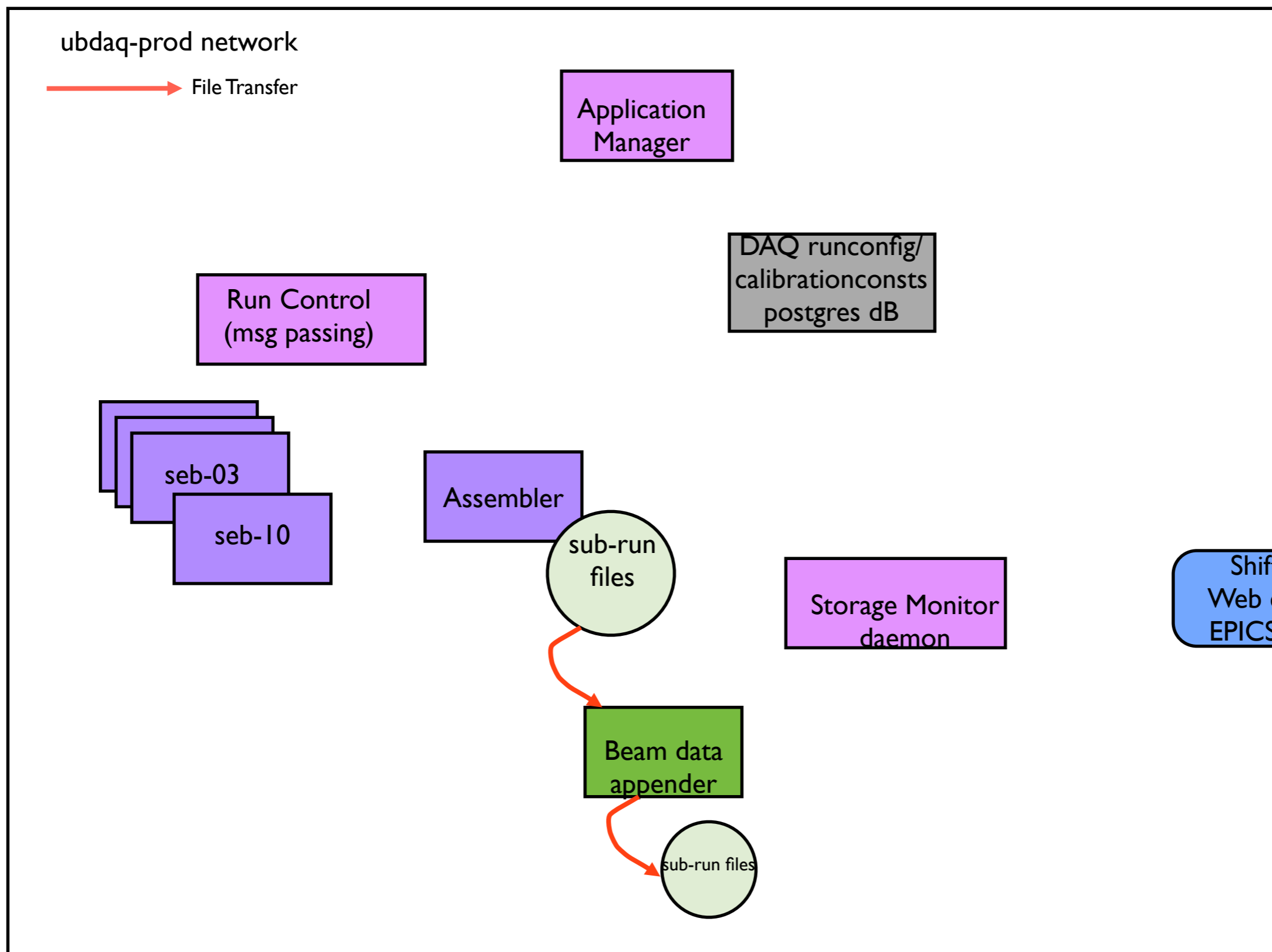
Circular Buffer of artdaq::Fragments

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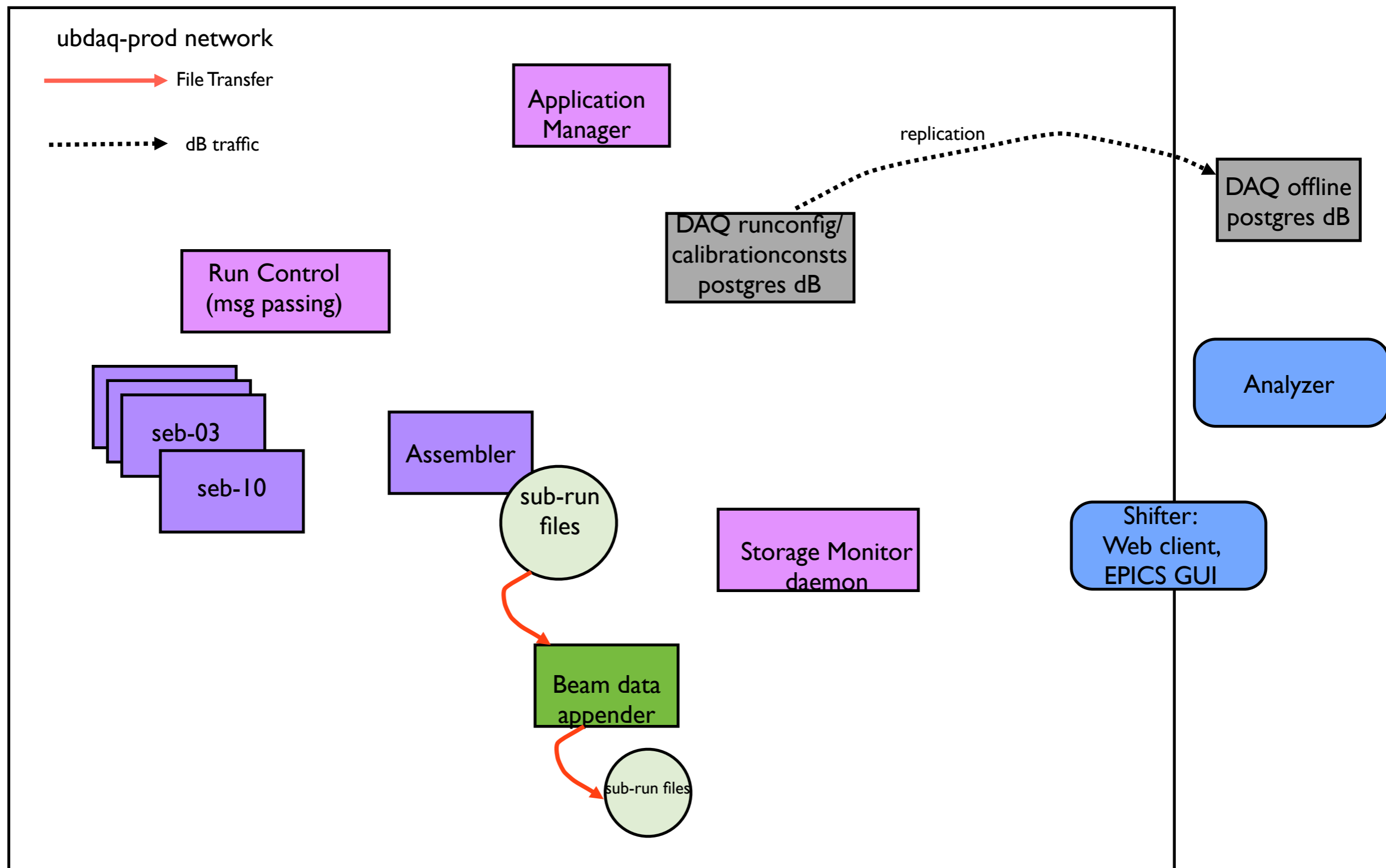
ubdaq-prod network



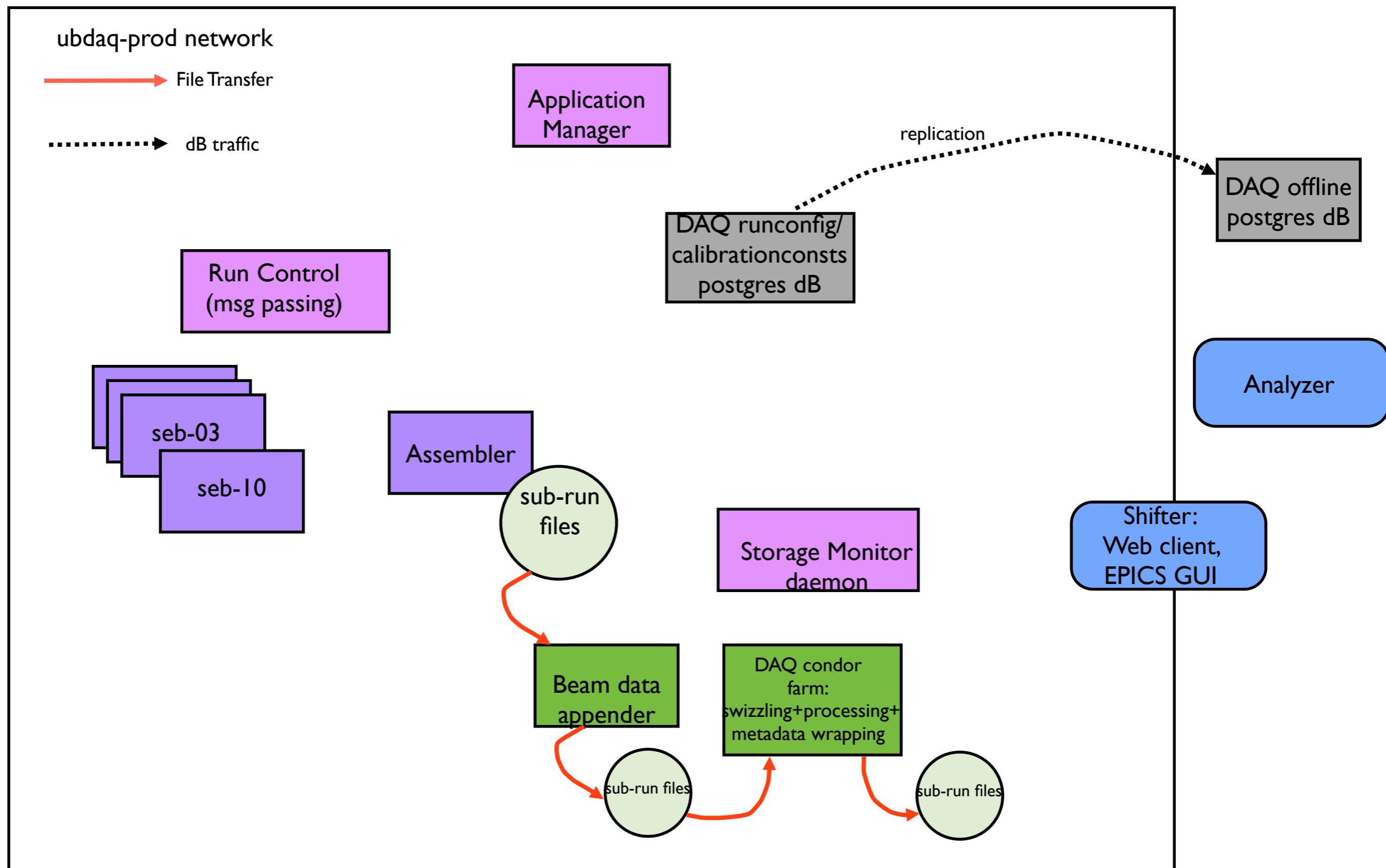
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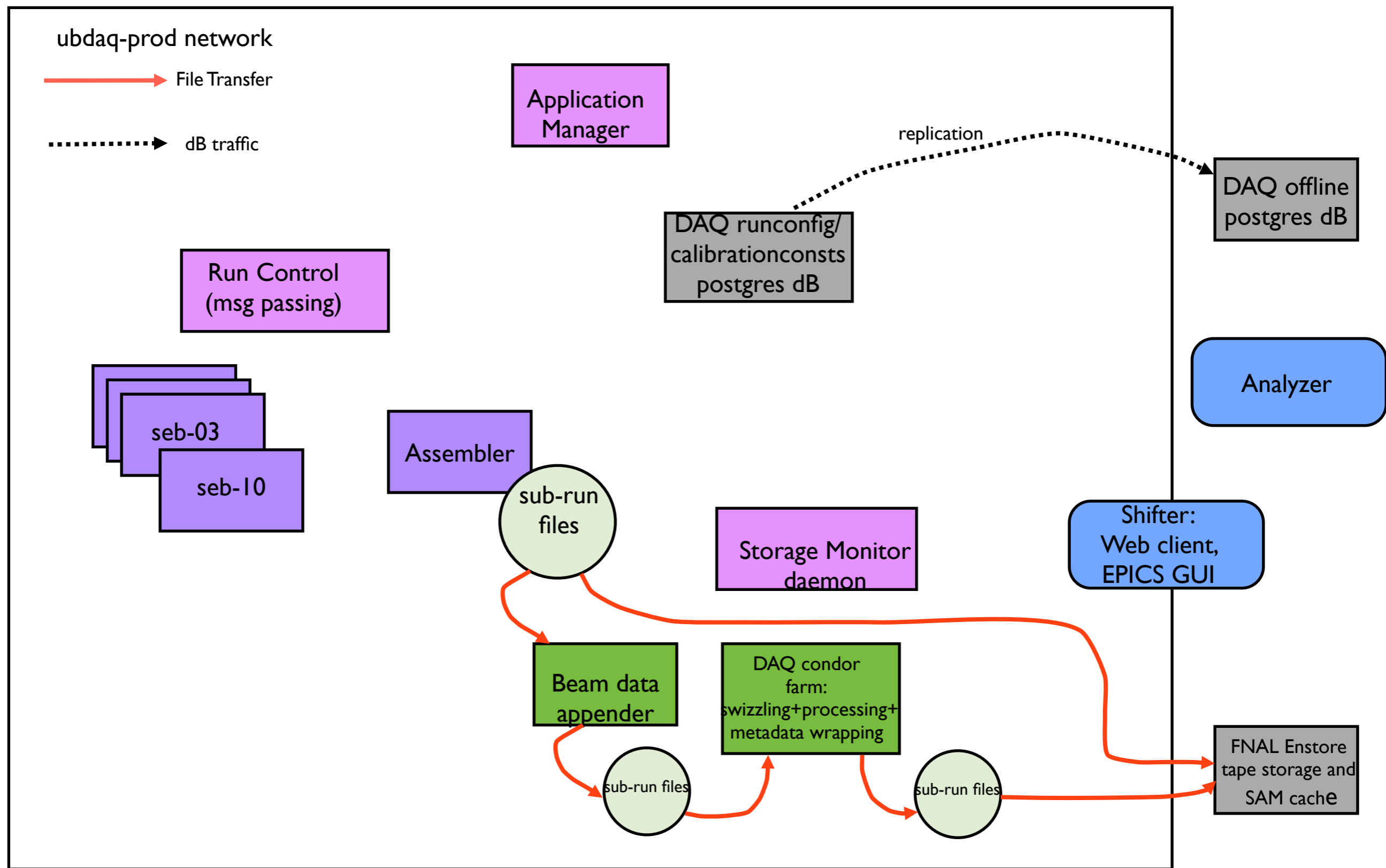
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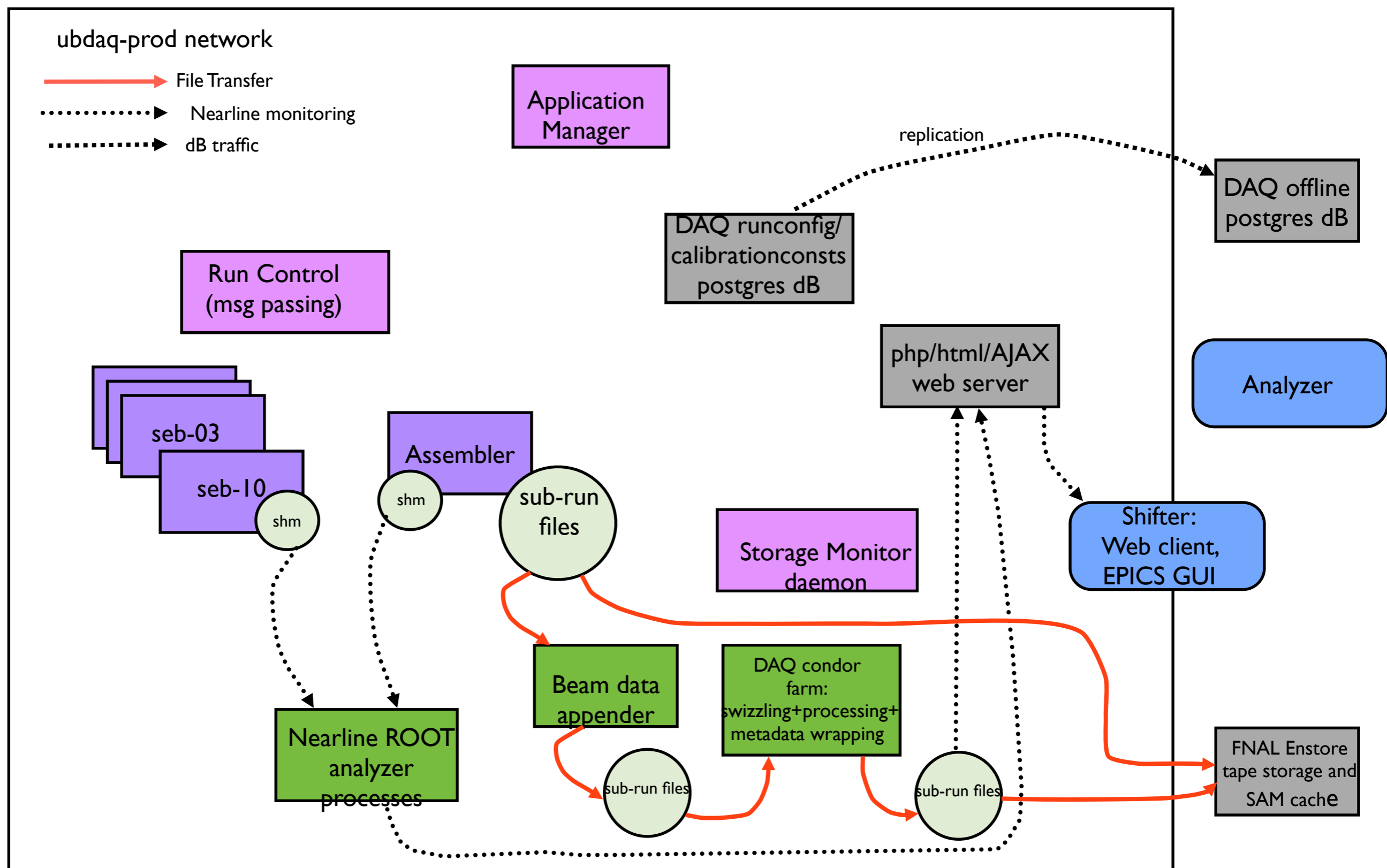
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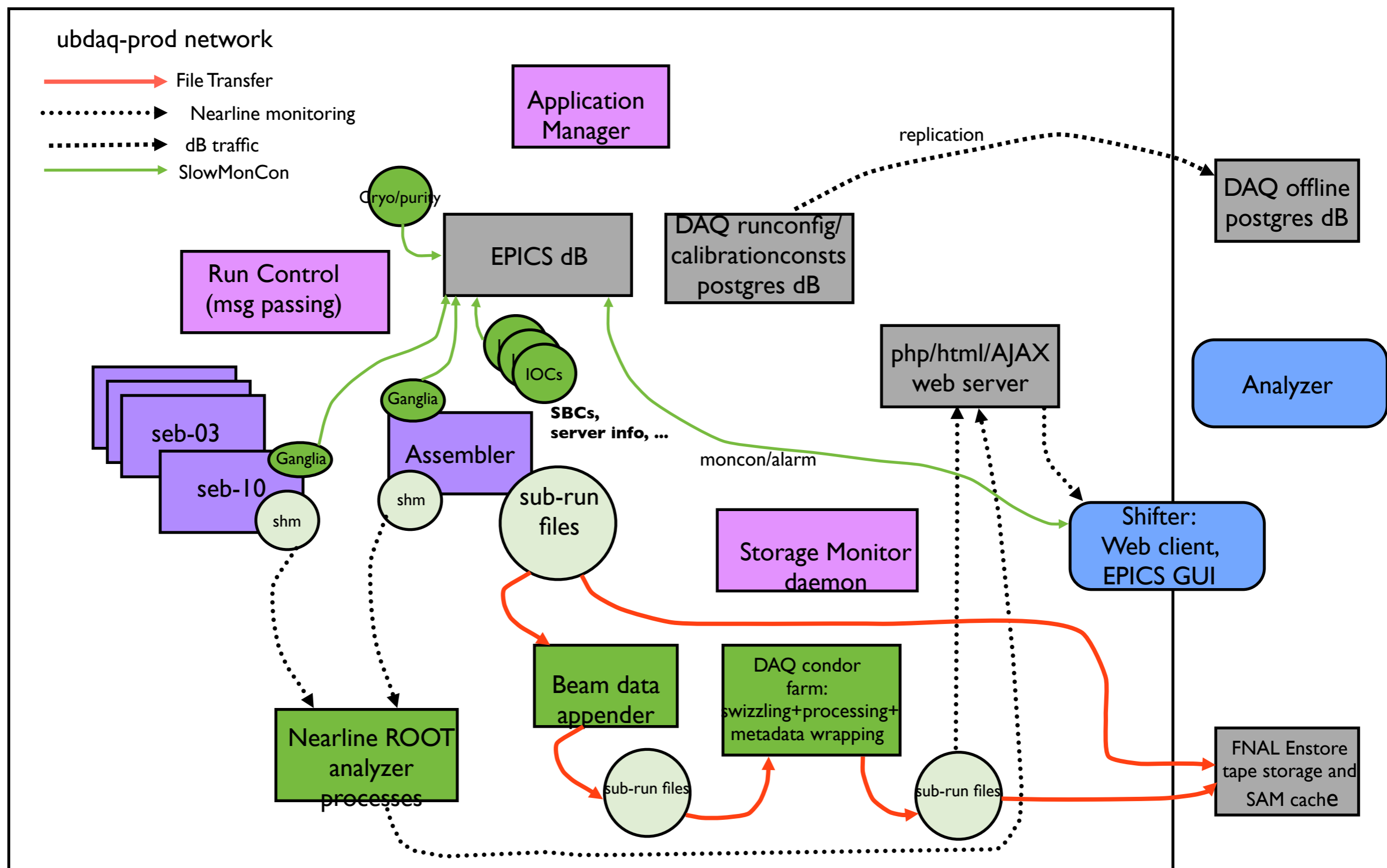
# Online/Offline DAQ systems



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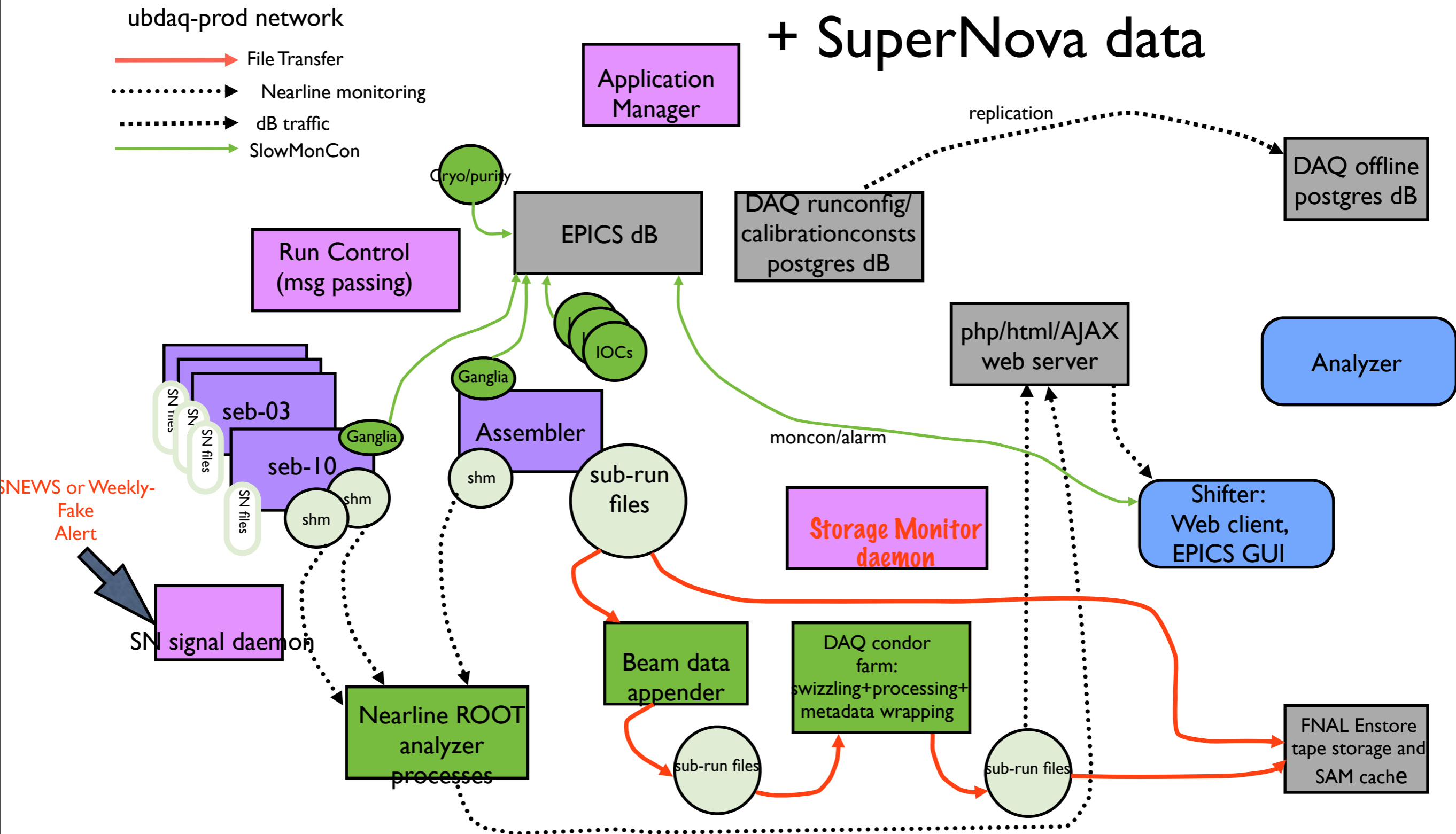


# Online/Offline DAQ systems



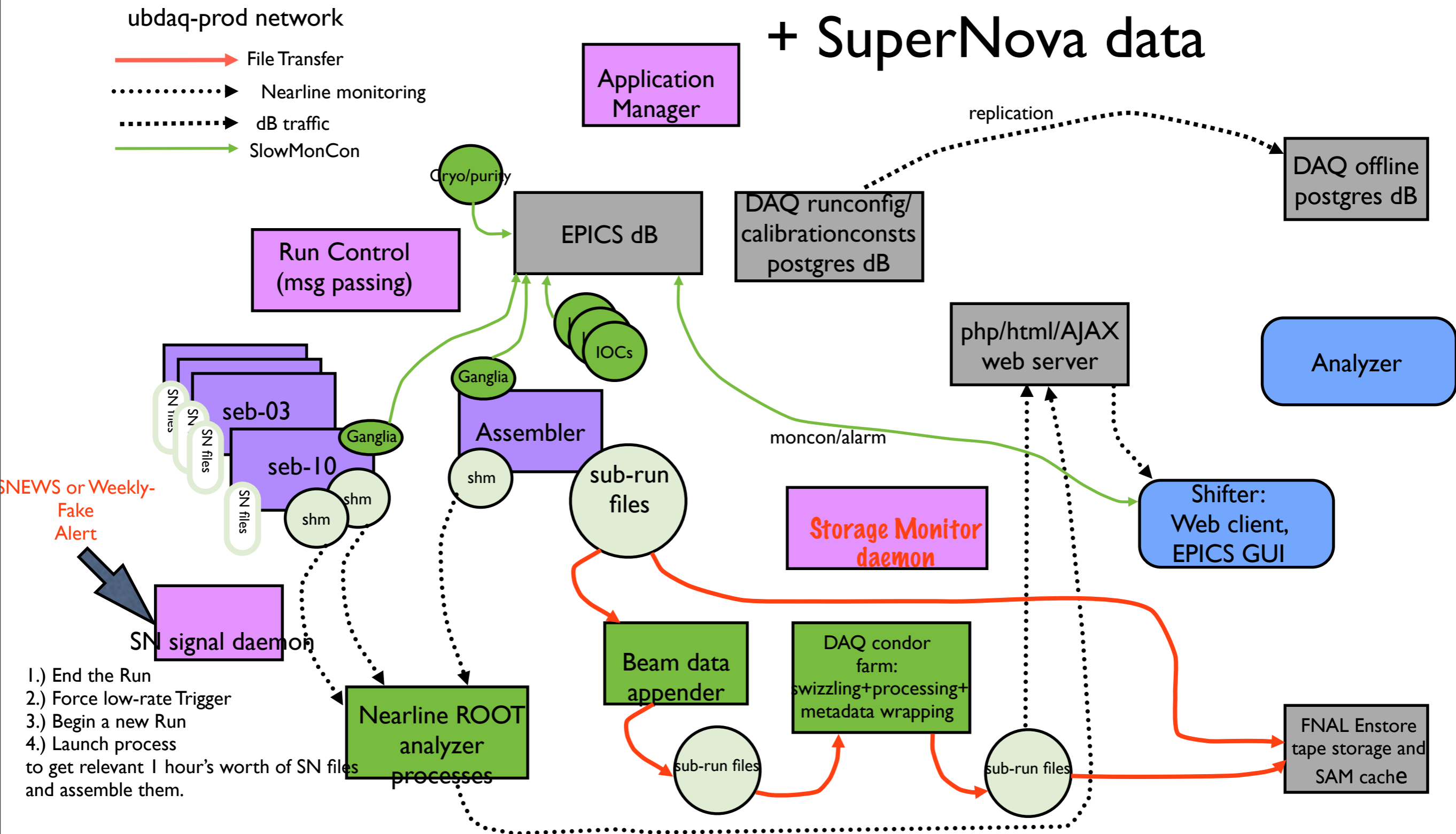
# Online/Offline DAQ systems

+ SuperNova data



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